Using Basic Mathematical Operations

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|  | **Element** | **1. Select and determine mathematical content in familiar and every day contexts** | | | **2. Apply mathematical skills to solve familiar numeric problems** | | | **3. Identify and compare similar mathematical terms and concepts** | | |
| **Critical Aspects** | Performance Criteria | 1.1 **Mathematical information** is identified and extrapolated from numeric text | 1.2 Numeric problems are matched with the appropriate **type of operations** | 1.3 Appropriate **mathematical language** is applied to problem solving | 2.1 Mathematical operations are completed and **solved accurately** | 2.2 Mathematical problems are solved using **basic operations** and written in a form which is clear and accurate | 2.3 Answers are **checked for accuracy**, validity and addressing the appropriate mathematical formatting | 3.1 Similar mathematical notions are **identified and ranked** | 3.2 Mathematical operations are **compared and converted** between similar notions | 3.3 Answers are clearly set out and problems addressed using **appropriate mathematical language** |
| **multiply and divide whole numbers** |  |  |  |  |  |  |  |  |  |  |
| **name place value of number in the decimal system** |  |  |  |  |  |  |  |  |  |  |
| **rank and order numbers in the decimal system** |  |  |  |  |  |  |  |  |  |  |
| **add and subtract decimal numbers to 3 decimal places** |  |  |  |  |  |  |  |  |  |  |
| **multiply and divide decimals by 10, 100 and 1000** |  |  |  |  |  |  |  |  |  |  |
| **multiply and divide decimals by whole numbers** |  |  |  |  |  |  |  |  |  |  |
| **round off decimal numbers to two decimal places** |  |  |  |  |  |  |  |  |  |  |
| **identify and differentiate between numerator, denominator, proper, improper and mixed fractions** |  |  |  |  |  |  |  |  |  |  |
| **add and subtract simple fractions with the same denominator** |  |  |  |  |  |  |  |  |  |  |
| **multiply and divide simple fractions** |  |  |  |  |  |  |  |  |  |  |
| **calculate percentage of an amount using a calculator** |  |  |  |  |  |  |  |  |  |  |
| **increase and decrease an amount by common percentages** |  |  |  |  |  |  |  |  |  |  |
| **compare and convert familiar and common decimals, fractions and percentages using problem solving and tables** |  |  |  |  |  |  |  |  |  |  |
| **recognise common ratios** |  |  |  |  |  |  |  |  |  |  |
| **calculate basic proportions and ratios to solve familiar and everyday life tasks** |  |  |  |  |  |  |  |  |  |  |
| **calculate areas, perimeters or volumes of squares, rectangles, cuboids** |  |  |  |  |  |  |  |  |  |  |
| **convert between common metric units** |  |  |  |  |  |  |  |  |  |  |
| **solve word problems using these basic operations** |  |  |  |  |  |  |  |  |  |  |